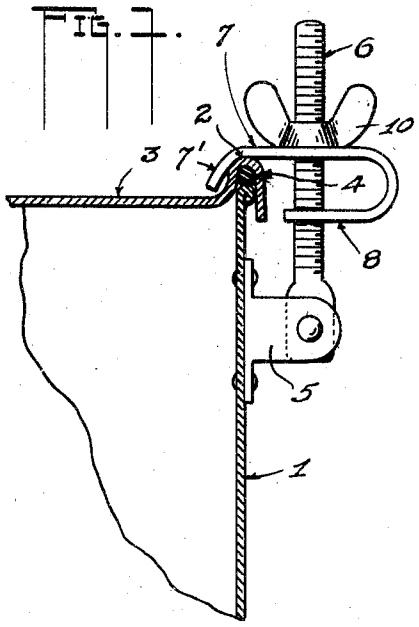
June 6, 1933. H. G. KUCK ET AL 1,912,850

CLAMP FOR RECEPTACLE COVERS

Filed Dec. 29, 1930

FIG. 1.



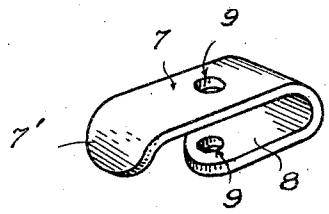


FIG. 2.

Inventor
H.G.Kuck,
T.J.Abele,
By L. M. Thurlow
Attorney

Patented June 6, 1933 1,912,850

UNITED STATES PATENT OFFICE

HENRY G. KUCK AND THEODORE J. ABEL, OF PEORIA, ILLINOIS, ASSIGNORS TO STUBER & KUCK CO., OF PEORIA, ILLINOIS, A CORPORATION OF ILLINOIS

CLAMP FOR RECEPTACLE COVERS

Application filed December 29, 1930. Serial No. 505,346.

This invention relates to means employed for clamping lids or covers to receptacles.

More particularly the invention pertains to a clamp hingedly attached to a receptacle and used to clamp the lid or cover of such receptacle in air tight manner.

The whole object of the invention is to provide a clamp including a threaded member hinged to a receptacle and provided with a lid-clamping member so fashioned and so related to said member as to be maintained in position for quick application to the lid and which cannot become disarranged on said member.

As an aid to the understanding of the invention we have provided the appended drawing wherein—

Figure 1 is a sectional elevation of part of a receptacle and its lid showing the application of our invention thereto, and

Figure 2 shows a clamping portion in perspective.

Part of a receptacle is denoted at 1 together with a lid which, in this instance includes a marginal flange 2 provided with a channel, and has a depressed central zone 3. That is to say, the said flange overhangs the top edge of the wall of the receptacle 1 and may receive in the channel thereof a packing ring or gasket 4 for providing an air tight joint and for retaining pressures that may be set up in said receptacle, the central zone 3 of the lid or cover being depressed or placed lower than the channel of said portion 2 to better accommodate the clamp now to be described.

Affixed to the outer side of the wall of the receptacle at two or more places, but one of which places is shown, is an ear 5 to which is pivotally attached in any desired manner one end of a member 6 which may be threaded, or otherwise provided, for retaining a nut or other type of securing means as 10.

Slidable on the member 6 is a clamping portion which may be of formed sheet metal, for example, having substantially the form of a U the limbs or extensions of which are of unequal length as 7, 8 each having an opening placed in alignment and being sufficiently large to permit such portion to freely slide along the said member 6. In the present instance the extension 7, which is longest, is bent at 7′ in the direction of the plane of the short extension 8 and as mounted upon the member 6, according to the drawing, extends over the flange 2 toward the depressed central zone 3 of said lid. In this instance a wing nut before referred to as 10 has engagement with the member 6 and is adapted to bear upon the extension 7.

It is clear that when assembled as shown the wing nut when carried against the member 7, 8 will force the extension 7 upon the flange 2 compressing the gasket resulting in an air tight joint, or one more or less perfect, according to the pressure applied. Since bent extension 7′ engages down behind the said flange 2 it must be at once evident that the member 7, 8 cannot turn on the member 6 irrespective of the amount of friction developed between the latter and said wing nut.

The advantage in the construction of the clamp by itself considered is that due to the fact that the member 7, 8 is a one piece structure and that its extensions engage the member 6 at spaced positions it is maintained in a plane at right angles to the longest axis of said member and is always ready for immediate engagement over the flange 2 when swung with the said member 6 upwardly to the position shown in the drawing. It is to be seen that the member 7, 8, in other words, retains the same position with respect to the member 6 at all times except, of course, a rotary movement thereon.

Some receptacle covers include bifurcated ears projecting therefrom to receive a threaded rod hinged on the receptacle wall and provided with a wing-nut for clamping purposes and it is necessary in the use of such a structure to shift the cover to a position in which the ears can be aligned properly with the rods before the clamping action can be proceeded with. The purpose of our device is that a clamping member such as 7, 8 can be placed on a threaded rod of any receptacle and used for clamping the cover without respect to whether or not the latter is provided with ears or projections of any nature.

As supplied as an article of sale in connection with the member 6, therefore, it is readily applicable to any receptacle. In addition, since the member 6 is attached to the receptacle and the clamping member is retained by the nut the whole is a unitary structure, there being no chance of separation from the receptacle to be lost or mislaid.

The extension 7 is of such length as to provide a full bearing for the wing nut and to permit it to engage over the flange 2, spanning the distance between the latter and the member 6, while the short extension 8 is of such length only as to receive its hole 9 for the reception therethrough of the said member 6.

The spaced extension 7, 8 prevent tipping of the structure upon the flange 2 which acts as a fulcrum when the wing nut is screwed down. Stated in another way the extension 8 abuts the member 6 within the opening 9 thus maintaining the operating position of the entire structure.

We claim:

The combination with a receptacle and a lid or cover arranged to be clamped upon the open side thereof, of a unitary clamping device comprising a threaded member hingedly attached at one end to the side wall of the receptacle, and a U-shaped member having an opening in both of its extremities both of which receive the threaded member therethrough, one of the extensions of the U-shaped member being longer than the other, extending beyond the same and adapted to engage upon the margin of said lid or cover, and a clamping nut on the threaded member adapted to engage the long extremity forcing the same upon the lid or cover, the short extremity abutting within the opening thereof against the threaded member in the clamping action.

In testimony whereof we affix our signatures.

HENRY G. KUCK.
THEODORE J. ABELE.